

Opener

Evaluate- Leave as a positive power

$$3(3)^5 \div 3^3$$

$$\frac{x^4(y(y^3))}{x y^4}$$

$$\left(\frac{3}{2}\right)^{-3}$$

Evaluate - Leave as a positive power

$$8^{-2} + (4^{-1})^2$$

Dec 4-8:02 AM

Opener

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$$3(3)^5 \div 3^3$$

$$\left(\frac{3}{2}\right)^{-3}$$

$$8^{-2} + (4^{-1})^2$$

$$(2)^{-2} + (2^2)^{-1}$$

$$2^{-6} + 2^{-4}$$

$$\frac{1}{2^6} + \frac{1}{2^4} \Rightarrow \frac{1}{64} + \frac{1}{16}$$

Evaluate - Leave as a positive power

Dec 4-8:02 AM

7.4 Working With Rational Exponents p. 410

$$b^{\frac{1}{n}} = (\sqrt[n]{b})^1$$

$$b^{\frac{m}{n}} = (\sqrt[n]{b})^m \Rightarrow \text{Radicals}$$

Dec 4-7:54 AM

$$8^{\frac{1}{3}} = (\sqrt[3]{8})^1$$

$$= (2)^1$$

$$= 2$$

$$81^{\frac{1}{4}} = (\sqrt[4]{81})^1$$

$$= (3)^1$$

$$= 3$$

Dec 4-7:58 AM

$$27^{\frac{2}{3}} = (\sqrt[3]{27})^2$$

$$= (3)^2$$

$$= 3^2$$

$$= 9$$

$$125^{-\frac{2}{3}} = \left(\frac{1}{125}\right)^{\frac{2}{3}}$$

$$\left(\frac{1}{\sqrt[3]{125}}\right)^2$$

$$\left(\frac{1}{5}\right)^2$$

$$\frac{1}{5^2}$$

$$\frac{1}{25}$$

Dec 4-8:49 AM

$$0.4 = \frac{25}{100} = \frac{1}{4} = 4^{-1}$$

$$0.45 = \frac{45}{100} = \frac{9}{20} = 9^{\frac{1}{20}}$$

$$25^{\frac{4}{10}} = (5^2)^{\frac{4}{10}} = 5^{\frac{8}{5}} = (5^{\frac{1}{5}})^8$$

$$16^{\frac{45}{100}} = (2^4)^{\frac{45}{100}} = 2^{\frac{18}{4}} = (2^{\frac{1}{4}})^{18}$$

Dec 4-8:56 AM

Homework  
p. 415-417 q. 1- 18 odds

Dec 4-7:56 AM